

**SOLID METAL BLOCK MOUNTING SUBSTRATES FOR
SEMICONDUCTOR LIGHT EMITTING DEVICES, AND OXIDIZING
METHODS FOR FABRICATING SAME**

Abstract of the Disclosure

A mounting substrate for a semiconductor light emitting device includes a solid metal block having a cavity in a face thereof that is configured for mounting a semiconductor light emitting device therein. An insulating coating is provided in the cavity, and first and second spaced apart conductive traces are provided on the insulating coating in the cavity that are configured for connection to a semiconductor light emitting device. The mounting substrate may be fabricated by providing a solid aluminum block including a cavity in a face thereof that is configured for mounting a semiconductor light emitting device therein. The solid aluminum block is oxidized to form an aluminum oxide coating thereon. The first and second spaced apart electrical traces are fabricated on the aluminum oxide coating in the cavity.